

# ABSTRACT OF THE DISCLOSURE

Disclosed is an optical measurement apparatus for a living body to provide a means for measuring blood flow activity within a short time inside the body, even if the test subject cannot distinguish between the active task period and the rest period. An optical measurement apparatus for a living body comprises a light irradiating section, and a light detecting section for detecting light transmitting through or reflected from the interior of the body. The concentration of carbon dioxide gas taken into the body is controlled by the respiration of the test subject and the resulting change in output from the light detecting section is then evaluated.